

3. Editing Schedules with TEDIT

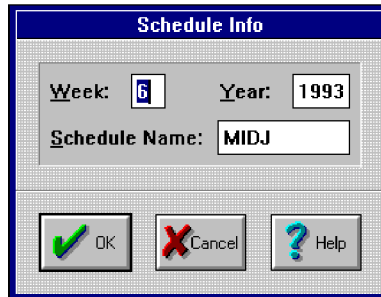
TEDIT is the FASTER schedule editor. It allows you to add, delete, and modify schedules information you select.

3.1 Loading TEDIT

- (1) From the Microsoft Windows Program Manager window, double click on the **FASTER** group icon.
- (2) From the FASTER Group window double click on the **Tedit** icon.



TEDIT displays a “Schedule Info” dialog box displaying the year and week of the last schedule edited.¹

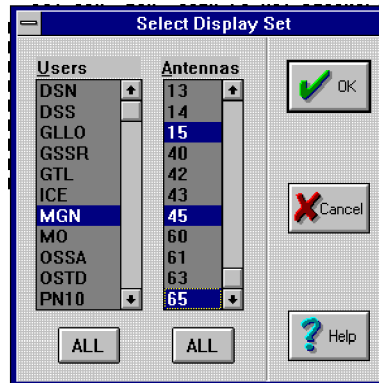


- (3) To tell TEDIT which schedule week to edit, input the **Week** and **Year** of the schedule to be edited. If the schedule was saved to a name other than the default, i.e., “MIDJ,” input that in the **Schedule Name:** field.
- (4) Click the **OK** button.

¹ This information is saved to the [TEDIT] section of the FASTER.INI file found in the C:\WINDOWS subdirectory of the FASTER workstation. This information should *not* be modified.

TEDIT loads the schedule week. If that schedule week does not exist, TEDIT displays an error message box. For example, if Week 54 of Year 1993 does not exist, TEDIT displays the error message “Illegal week and year info.”

After loading the selected Schedule Week, TEDIT displays the “Select Display Subset” dialog box to show what will be displayed based on the last TEDIT session. If you don't wish to change this, click **OK**.



Otherwise, click on the projects and antennas of interest in the **Users** and **Antennas** lists, then click **OK**.

Schedule Editor 2.1 - MIDJ.SCH														
File	Edit	Options	Search	Line	Help									
DOV	SDA	EDR	USER	FC	ACT	DESCRIPTION	PRE	DOT	EDT	PDS	MCT	CNG	XFLCT	
001	058	0020	0600	UGR1	61	TKG PASS D/L	045	0105	0545	015	1A1	000I		
002	058	0300	1030	GLLO	63	TP 1/CDS IFL	115	0415	1015	015	1A1	600I		
003	058	0415	1355	SULB	43	PRELAUNCH SURVEY	130	0545	1325	030	1A2	1304		
004	058	0600	1720	ULYS	61	TP SCE R/S	200	0800	1705	015	1A1	540K		009
005	058	0810	1050	UGR1	15	TKG PASS D/L	030	0840	1035	015	1A1	000I		
006	058	0845	2200	DSS	42	CSIRD R/A	045	0930	2145	015	302	1010		
007	058	1010	1545	GLLO	14	TP 1/CDS IFL	115	1125	1530	015	1A1	600I		
008	058	1115	0130	PN10	63	TKG PASS	045	1200	0115	015	1A1	200I		
009	058	1120	1220	WIND	61	TKG PASS TLN D/L	030	1150	1205	015	1A1	100I		004
010	058	1320	0120	ULYS	24	TP SCE R/S	200	1520	0105	015	1A1	540K		
011	058	1355	0310	GLLO	43	TP 1/CDS IFL	115	1510	0255	015	1A1	600I		
012	058	1520	2145	UGR2	45	TKG PASS D/L	030	1550	2130	015	1A1	000I		
013	058	1545	2045	PN11	14	TKG PASS D/L	045	1630	2030	015	1A1	000S		
014	058	1600	2050	DSS	12	MAINTENANCE	000	1600	2050	000	2A1	NONE		
015	058	2050	0040	WIND	12	TR DUMP	115	2205	0025	015	1A1	4000		
016	058	2145	0040	ULYS	45	TP SCE R/S	130	2315	0025	015	1A1	540K		
017	058	2200	0600	DSS	42	MAINTENANCE	000	2200	0600	000	2A1	NONE		
018	058	2250	0400	DSS	14	MAINTENANCE	000	2250	0400	000	2A1	NONE		
019	058	0020	0555	UGR1	61	TKG PASS D/L	045	0105	0540	015	1A1	000I		

If your video resolution is set to 800 x 600 or above, TEDIT can display all the columns on the screen; otherwise, scroll bars appear indicating some scrolling is needed to view all information. (See Sec. 1.5.2 on scrolling in MS-Windows.)

The TEDIT window's title bar shows the schedule database currently in use.² In the window at the bottom right is listed the following information:

- Schedule Name
- Week Number
- Year
- SOA or BOT held constant

The display in the TEDIT main window is laid out as follows:

ID No.	A unique ID assigned to it when it is created.
DOY	Day of Year
SOA	Start of Allocation
EOA	End of Allocation
User	Facility user
FC	DSN Antenna
ACT Description	Textual description of scheduled DSN activity
PRE	Pre-calibration time value
BOT	Begin of Track (Pre-cal has been factored in)
EOT	End of Track (Post-cal has been factored in)
POS	Post-calibration time value
WCT	DSN Work Code category
CNG	DSN Configuration code
XFLT	Conflict flag column. The ID numbers of items in conflict are displayed here.

3.2 TEDIT Navigational Aids

TEDIT has some additional keyboard navigation aides that you can use instead of the mouse:

<UP ARROW>	Move one line up, if not already at the top.
<DOWN ARROW>	Move one line down, if not already at the bottom.
<RIGHT ARROW>	Move one field left, if not already at the left most field.

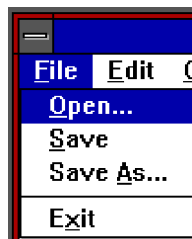
² The schedule database contains all the physical records for a given schedule week. To change the schedule database used by TEDIT, refer to Section 12 on FSTRCTRL, the FASTER Control Panel.

<LEFT ARROW>	Move one field right, if not already at the right most field.
<PG-UP>	Move up one screen.
<PG-DN>	Move down one screen
<Home>	Move to the left most field.
<End>	Move to the right most field
<Ctrl-Home>	Move to the top line in the schedule.
<Ctrl-End>	Move to the bottom line of the schedule.

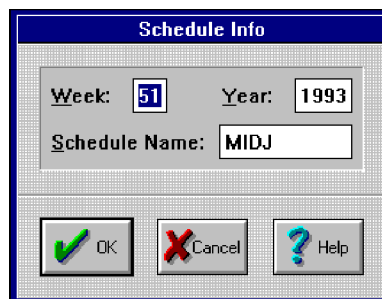
3.3 Opening and Saving a Schedule Week

3.3.1 Opening a Schedule Week

- (1) From the main **File** pull-down menu, select *Open...* .



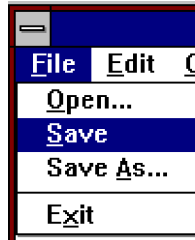
TEDIT displays a “Schedule Info” dialog box.



- (2) Enter the week, year, and (optionally) schedule name.
- (3) Click **OK**. TEDIT loads the schedule.

3.3.2 Saving A Schedule Week

- (1) From the main **File** pull-down menu, select the *Save* option.



TEDIT saves the schedule week and shows its progress in a message box. It will then release the schedule to the external users by writing the text file output to the \FASTER\DATA\REMOTE subdirectory.

- (2) To save a schedule to a different name or week (as, for example, if you want to use a particular week as a template for another week), do the following:
 - (a) From the main **File** pull-down menu, select the *Save As...* option.

TEDIT displays a "Schedule Info" dialog box.

- (b) Enter the appropriate week, year, and new schedule name and click **OK**.

3.4 Typing and Revising Schedule Information

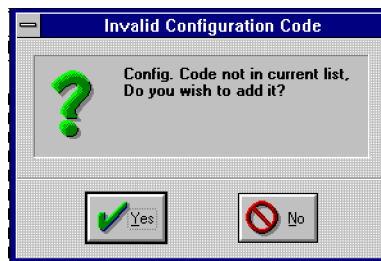
To type a new value for the currently selected field, just type. The new value appears in the edit box at the bottom left of the screen.

Schedule Editor 2.1 - MIDJ.SCH																				
File	Edit	Options	Search	Line	Help	Day	SOA	EOA	USER	FG	ACT	DESCRIPTION	PRE	BOT	EDT	PBS	WCT	ONG	XFLCT	
001	05	0020	0000	0001	61	TKG	PASS	D/L			015	0105	0545	015	101	0001				
002	05	0000	1000	0010	60	TP	1/CD5	IFL			115	0415	1015	015	101	0001				
003	05	0415	1055	0010	40	PRELAUNCH	SURVEY				130	0545	1025	030	102	1004				
004	05	0600	1720	0155	61	TP	SCE	R/S			200	0800	1705	015	101	540K		000		
005	05	0810	1950	0001	15	TKG	PASS	D/L			030	0840	1935	015	101	0001				
006	05	0045	2200	055	42	CSIRO	R/A				045	0930	2145	015	101	0010				
007	05	1010	1545	0110	14	TP	1/CD5	IFL			115	1125	1530	015	101	0001				
008	05	1115	0100	0010	63	TKG	PASS				045	1200	0115	015	101	2001				
009	05	1120	1220	0110	61	TKG	PASS	TLN	D/L		030	1150	1205	015	101	1001		004		
010	05	1320	0120	0155	24	TP	SCE	R/S			200	1520	0105	015	101	540K				
011	05	1355	0210	0110	40	TP	1/CD5	IFL			115	1510	0255	015	101	0001				
012	05	1520	2145	0002	45	TKG	PASS	D/L			030	1550	2130	015	101	0001				
013	05	1545	2045	0011	14	TKG	PASS	D/L			045	1630	2030	015	101	0005				
014	05	1600	2050	055	12	MAINTENANCE					000	1640	2050	000	201	NONE				
015	05	2050	0040	0110	12	TR	DUMP				115	2205	0025	015	101	0000				
016	05	2145	0040	0155	45	TP	SCE	R/S			130	2215	0025	015	101	540K				
017	05	2200	0600	055	42	MAINTENANCE					000	2200	0600	000	201	NONE				
018	05	2250	0400	055	14	MAINTENANCE					000	2250	0400	000	201	NONE				
019	05	0020	0555	0001	61	TKG	PASS	D/L			045	0105	0540	015	101	0001				
020	05	0230	1105	0110	63	TP	1/CD5	IFL			115	0245	1050	015	101	0001				
021	05	0310	0510	0002	43	TKG	PASS				045	0355	0555	015	101	0001				
TKG PASS D/L														Auto-save: OFF					Schedule: MIDJ Week: 9 Year: 1995	BOT

Press <ENTER> when finished to have the value entered into the schedule proper, or <ESC> if you wish to leave the value unmodified.

To edit the **ACT** (Activity) **DESCRIPTION** field without re-entering the entire string, press <F2>. The current value is displayed in the edit box at the bottom left of the screen. Use the <ARROW KEYS> to position the caret at the location of interest and start typing. Press <ENTER> when finished or <ESC> to leave the value unmodified

Most fields are checked for validity upon input. If an input value is out of a specified range, TEDIT displays an error message box. The **CNG** (Configuration) code is a special case. If you enter a configuration code that is not currently part of FASTER's database, you are asked if you wish to add the new code to the database.



Selecting **Yes** will make it a permanently valid configuration code; selecting **No** means you will have to enter a different value.

The validity tests to be passed are listed in the table below.

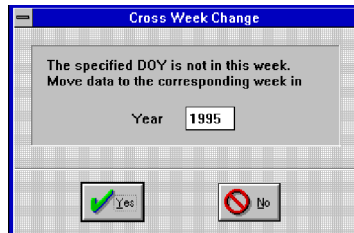
Name of Test	Criteria for Validity
DOY	Must be a valid day of year for the week being edited.
SOA	0-2359 in hour minute format. TEDIT automatically pads with leading zeros.
EOA	0-2359 in hour minute format. TEDIT automatically pads with leading zeros.
USER	Must be a valid user mnemonic from the user information file ³ .
FC	Must be a valid short resource (antenna) name from the antenna information file ⁴ .

³ The users are contained in the USER.INI file.

⁴ The antennas are contained in the ANTENNA.INI file.

Name of Test	Criteria for Validity
ACT DESCRIPTION	No checking; 16-character maximum.
PRE	0-959 in hour minute format. TEDIT will automatically pad with leading zeros.
BOT	0-2359 in hour minute format. TEDIT automatically pads with leading zeros.
EOT	0-2359 in hour minute format. TEDIT automatically pads with leading zeros.
POS	0-959 in hour minute format. TEDIT automatically pads with leading zeros.
WCT	Must be a valid work code category from the work code category file ⁵ .
CNG	Must be a valid configuration code from the configuration code and equipment Info file ⁶ .

When a schedule activity is edited such that it falls into a schedule week *other than* the one being edited, TEDIT will prompt the user with the "Cross Week Change" Message Box.



If the activity has crossed the year boundary enter the new year into the Year edit control

⁵ The DSN work codes are contained in the WORKCAT.INI file.

⁶ The DSN configuration codes are contained in the CONFIG.INI file .

(1) Click the **OK** button.

TEDIT will display the "Cross Week" Message Box.

(2) Click the **OK** button if you want the cross copy to take place.

3.5 Cutting, Copying, and Pasting Schedule Items

To COPY the current schedule line (that is, the one highlighted in reverse video)—

From the main **Edit** pull-down menu, select the *Copy Line* option.

Edit	Options	Search
Cut Line	Shift-Del	
Copy Line	Ctrl-Ins	
Paste Line	Shift-Ins	

TEDIT will add a new line identical to the one currently selected.

To remove or CUT a schedule line—

From the main **Edit** pull-down menu, select the *Cut Line* option.
TEDIT will copy the cut or copied line into the schedule listing.

Edit	Options	Search
Cut Line	Shift-Del	
Copy Line	Ctrl-Ins	
Paste Line	Shift-Ins	

To copy a line elsewhere in a schedule, use the *Paste Line* option. Before using *Paste Line*, use either the *Cut Line* or *Copy Line* option to put a copy of the selected item into the “paste buffer.”

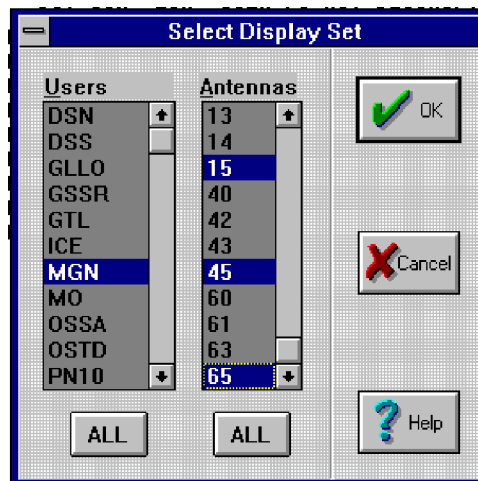
3.6 Displaying a Subset of a Schedule

To work with only a subset of a week's schedule data (for example, only the Galileo entries)—

- (1) From the main **Options** pull-down menu, select the *Select Subset...* option.

Options	Search	Line	Help
Select <u>D</u> isplay Set...			Ctrl-D
Display <u>A</u> ll			Ctrl-A
<u>S</u> OA Constant			Ctrl-S
<u>B</u> OT Constant			Ctrl-B
Real Time Conflict			
<u>F</u> lag Conflict...			Ctrl-X
Erase Hard Conflicts			

TEDIT displays the “Select Display Set” dialog box.



This box has two lists, one for **Users** and one for **Antennas**. In this example, the user has selected the MGN user and Antennas 15, 45, and 65.

- (2) Make your selections and click **OK**. TEDIT redisplay the main window, showing only the selected data subsets.

DOY	SOA	EOA	USER	FC	ACT	DESCRIPTION	PRE	BOT	EOT	POS	WCT	CMC	XFLCT
001	058	0020	0600	UGR1	61	TKG PASS D/L	045	0105	0545	015	101	0001	
002	058	0000	1000	GLLO	63	TP 1/CDS IFL	115	0015	1015	015	101	0001	
003	058	0415	1355	SULB	A3	PRELAUNCH SURVEY	130	0545	1325	030	102	1304	
004	058	0600	1720	ULYS	61	TP SCD R/S	200	0800	1705	015	101	540K	000
005	058	0010	1950	UGR1	15	TKG PASS B/L	030	0040	1935	015	101	0001	
006	058	0845	2200	DSS	A2	CSIRO R/A	045	0020	2145	015	302	1018	
007	058	1010	1545	GLLO	14	TP 1/CDS IFL	115	1125	1530	015	101	0001	
008	058	1115	0130	PH10	63	TKG PASS	005	1200	0115	015	101	2001	
009	058	1120	1220	WIND	61	TKG PASS TLN D/L	030	1150	1205	015	101	1001	004
010	058	1320	0120	ULYS	24	TP SCD R/S	200	1520	0105	015	101	540K	
011	058	1355	0010	GLLO	63	TP 1/CDS IFL	115	1510	0255	015	101	0001	
012	058	1520	2145	UGR2	A5	TKG PASS B/L	030	1550	2130	015	101	0001	
013	058	1545	2045	PH11	14	TKG PASS D/L	045	1630	2030	015	101	0005	
014	058	1600	2050	DSS	12	MAINTENANCE	000	1600	2050	000	201	NOHE	
015	058	2050	0000	WIND	12	TR DUMP	115	2205	0025	015	101	4000	
016	058	2145	0840	ULYS	A5	TP SCD R/S	130	2315	0825	015	101	540K	
017	058	2200	0600	DSS	A2	MAINTENANCE	000	2200	0600	000	201	NOHE	
018	058	2250	0400	DSS	14	MAINTENANCE	000	2250	0400	000	201	NOHE	
019	059	0020	0555	UGR1	61	TKG PASS D/L	045	0105	0540	015	101	0001	
020	059	0230	1105	GLLO	63	TP 1/CDS IFL	115	0245	1050	015	101	0001	
021	059	0310	0610	UGR2	A2	TKG PASS	045	0355	0555	015	101	0001	
TKG PASS D/L													

To redisplay all user activities on the schedule after displaying only a subset—

From the main **Options** pull-down menu, select the *Display All* option.

Options	Search	Line	Help
Select Display Set...	Ctrl-D		
Display All	Ctrl-A		
SOA Constant	Ctrl-S		
BOT Constant	Ctrl-B		
Real Time Conflict			
Flag Conflict...	Ctrl-X		
Erase Hard Conflicts			

TEDIT redisplay all activities in that schedule.

3.7 Forcing SOA or BOT to Remain Constant

When an allocation's begin, end, pre-, or post-calibration time is changed, the related beginning of track or end of track (BOT/EOT) is updated automatically. And likewise when a beginning of track or end of track is changed, the related start of acquisition or end of acquisition (SOA/EOA) is updated automatically. To hold one of these values constant, use the *SOA Constant* or *BOT Constant* options, as follows:

From the main **Options** pull-down menu, select the *SOA Constant* or *BOT Constant* option.

Options	Search	Line	Help
Select Display Set...		Ctrl-D	
Display All		Ctrl-A	
SOA Constant		Ctrl-S	
BOT Constant		Ctrl-B	
Real Time Conflict			
Flag Conflict...		Ctrl-X	
Erase Hard Conflicts			

3.8 Flagging Conflicts

TEDIT will check the schedule for any antenna and AOS/SOA conflict. Perform these checks as follows:

- (1) From the main **Options** pull-down menu, select the *Flag Conflicts...* option.

Options	Search	Line	Help
Select Display Set...		Ctrl-D	
Display All		Ctrl-A	
SOA Constant		Ctrl-S	
BOT Constant		Ctrl-B	
Real Time Conflict			
Flag Conflict...		Ctrl-X	
Erase Hard Conflicts			

TEDIT places the error flags in the right-most column labeled **XFLT**. Those error flags refer to the ID numbers on the left-hand side of the screen. If TEDIT finds more than one conflict, it displays **MORE**. (For more specifics, see Section 4 on LINELIST.)

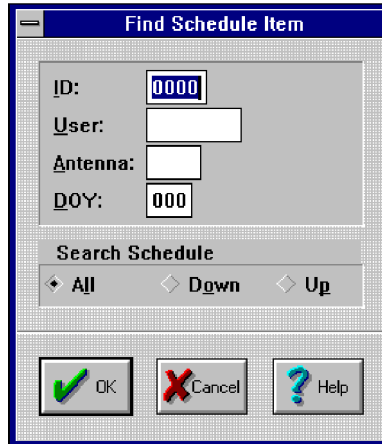
3.9 Searching for Schedule Items

To locate a specific schedule item, use the **Search** feature, as follows:

- (1) From the main **Search** pull-down menu, select the *Find* option.

Search	Line	Help
Find...		Ctrl-F
Next Conflict		Ctrl-C

TEDIT displays the “Find Schedule Item” dialog box.



You can search on one or more of the following search criteria:

- ID a schedule line item's a unique ID number.
- User a particular flight project or other user.
- Antenna one of the DSN antennas.
- DOY day of year.

You can also specify the search direction to one of three options:

- All search in both directions.
- Up search only upwards (backwards) to the beginning of the file.
- Down search only downwards (forwards) to the end of the file.

- (2) Enter the necessary search criteria and press **OK**. TEDIT locates the first schedule item matching your input search criteria.

After having flagged conflicts, you can jump from conflict to conflict using the *Next Conflict* option on the **Search** menu:

From the main **Search** pull-down menu, select the *Next Conflict* option. TEDIT jumps to the next conflict.

3.10 Toggling NIBs, Hards, and Waivers

“NIBs,” “Hards,” and “Waivers” are terms describing three types of schedule item conflicts:

- NIB Non-Interference Basis. Although this activity appears to impact other schedule items, in fact, it does not.
- Hard This is a hard conflict requiring special notation.
- Waiver RFI conflict.

These three conflict types are toggled on and off. It is not possible to have both a NIB and a Hard conflict simultaneously. The two are mutually exclusive. To toggle a conflict designation on and off:

From the main **Line** pull-down menu, select one of the three options:

- *Toggle Hard Mark* TEDIT will place an “H” in the far left column.
- *Toggle the NIB Mark* TEDIT will place an “N” in the far left column.
- *Toggle RFI Waiver:* TEDIT will place a “I” in the far left column.

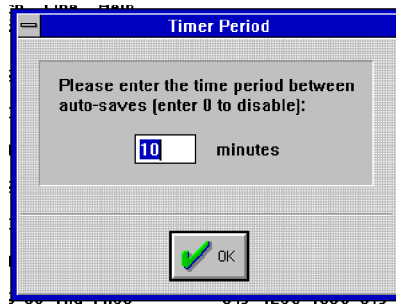
3.11 Auto-Save Mode

With version 2.1, TEDIT allows the user to backup the currently open schedule at a user defined interval. This prevents loss of data in the event of an unforeseen computer glitch.

- (1) From the Main menu bar select the File option.
- (2) From the File pull-down menu select the "Set Auto Save Timer..." option.

Options	Search	Line	Help
Select <u>D</u> isplay Set...			Ctrl-D
Display <u>A</u> ll			Ctrl-A
<u>S</u> OA Constant			Ctrl-S
<u>B</u> OT Constant			Ctrl-B
<u>R</u> eal Time Conflict			
<u>F</u> lag Conflict...			Ctrl-X
<u>E</u> rase Hard Conflicts			
Set Auto-Save <u>T</u>imer...			

The "Timer Period" Dialog box will appear.



(3) In the dialog box enter the time interval (in minutes).

(4) Click the **OK** button.

The Auto-Save status value at the bottom of the TEDIT window will change to ON.